

**DUAL CURE COATING COMPOSITION
AND PROCESSES FOR USING THE SAME**

5

ABSTRACT

10

15

The dual cure coating composition requires both radiation and heat energy to cure and comprises a radiation curable component (a1), a thermally curable binder component (a2), and a thermally curable crosslinking component (a3). Radiation curable component (a1) is polymerizable upon exposure to radiation and comprises at least two functional groups (a11) comprising at least one bond activatable with radiation. Thermally curable binder component (a2) is polymerizable upon exposure to heat, and comprises (a21) at least two functional groups which are reactive with functional groups (a31), and a polydispersity of less than 4.0. Thermally curable crosslinking component (a3) comprises functional groups (a31) which are reactive with functional groups (a21). The invention further comprises methods of making coated surfaces that have both optimum porosity sealing and adhesion.